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[Low-overhead Time-Triggered Group Membership - Katz, Lincoln, al. \(1997\) \(Correct\) \(12 citations\)](#)

2 bandwidth are perceived to be too costly. Wireless communication is viewed as impractical due to that a faulty processor will be promptly diagnosed and removed from the agreed group of the agreed group of processors, and will also diagnose itself as faulty. The protocol is correct under www.csl.sri.com/reports/postscript/wdag97.ps.gz

[Diagnosis And Communication In Distributed Systems - Sengupta \(1998\) \(Correct\) \(6 citations\)](#)

are motivated by the diagnosis of failures in a wireless LAN. 1 Introduction We are interested in for coordinating vehicle systems [5, 10] and wireless local area networks [3, 6] These systems are spatially separated sites with each site having a diagnoser that observes some of the events generated by robotics.eecs.berkeley.edu/~godbole/wodes98.ps

[Distributed System Management via Elastic Servers - Goldszmidt \(1993\) \(Correct\) \(5 citations\)](#)

sistemac.carnet.hr/~ddelija/lite/papers/gol9304.pdf

[Using End-to-End Statistics to Distinguish Congestion and.. - Biaz, Vaidya \(1997\) \(Correct\) \(5 citations\)](#)

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[Adtranz: A Mobile Computing System for Maintenance.. - Siewiorek.. \(1998\) \(Correct\) \(4 citations\)](#)

Wearable/ Mobile computers combined with the wireless technology improve efficiency and accuracy of [1]2]3]4]5] combined with the wireless technology improve efficiency and accuracy of the other one can use the mobile computer to diagnose the problem, Figure 1. The technician uses c2000.cc.gatech.edu/classes/cs8113c_99_spring/readings/siewiorek.pdf

[Distinguishing Congestion and Corruption Losses: A Negative.. - Biaz, Vaidya \(1997\) \(Correct\) \(3 citations\)](#)

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[Smart Energy Distribution And Consumption: Information.. - Rabaey Arens Federspiel \(2001\) \(Correct\) \(2 citations\)](#)

Such devices must be connected by short-range wireless networks as well as by very high-bandwidth, Societal-scale information systems, consisting of wireless sensors/actuators enable the control of or under attack. The SIS must configure, install, diagnose, maintain, and improve itself -this applies bwrc.eecs.berkeley.edu/Research/Pico_Radio/..../Publications/2001/samrt_energy_dist_consump/SmartEnergy.pdf

[Measuring Traffic on the Wireless Medium: Experience and.. - Yeo, Banerjee, Agrawala \(2002\) \(Correct\) \(2 citations\)](#)

1 Measuring Traffic on the Wireless Medium: Experience and Pitfalls Jihwang Yeo, studies have examined traffic characteristics in wireless networks. Most of these measurements [1]6] useful when we want to emulate the protocol or diagnose problems of wireless networks. Third, sniffer www.cs.umd.edu/Library/TRs/CS-TR-4421/CS-TR-4421.pdf

[Diagnosis of Sensor Networks - Jaikaeo, Srisathapornphat, Shen \(2001\) \(Correct\) \(1 citation\)](#)

purpose computing with multiple sensing and wireless communication capability [1]As sensor nodes in Fig. 1(a)For sensor networks relying on wireless communication, this may result in considerable of the sensor networks can be monitored and diagnosed to ensure proper behavior. For example, knowing www.cis.udel.edu/~degas/Publications/jaikaeo01diagnosis.ps

A Frequency-Domain Approach to Crosstalk Identification.. - Galli, Valenti, Kerpez (2001) (Correct) (1 citation)
now increasing [4]5]Multiuser techniques for wireless systems have been finely honed to improve systems have been finely honed to improve wireless capacity, and it is now time to apply these likely to occur and may be extremely difficult to diagnose. A thorny issue is gaining access to all the www.argreenhouse.com/papers/sgalli/XtalkID.pdf

MASSA: Mobile Agents Security through Static/Dynamic Analysis - Alessandro Orso College (2002) (Correct) (1 citation)

retrieval [8]to network management [2]to wireless-based services for dynamically reconfigured of MASs, and static, white-box techniques to diagnose early the possible presence of such threats. We www.cc.gatech.edu/aristotle/Publications/Papers/wsem01.ps

Sensor-Based Information Appliances - Petriu, Georganas, Petriu.. (2000) (Correct) (1 citation)
a message directly to the manufacturer over a wireless connection to the network. The manufacturer's phone, television, computer, Web cams, wireless touch-pads, health maintenance devices, to the network. The manufacturer's systems diagnose the problem and transmit a fix back to the www.site.uottawa.ca/~petriu/IM-Mag00-iSense-www.pdf

Diagnosing InterOperability Problems by Enhancing Constraint.. - Sqalli, Freuder (1998) (Correct) (1 citation)
Interface (FDDI)Network Management, Token Ring, Wireless, and others. Interoperability testing is of the main challenges at IOL is how to debug and diagnose interoperability problems in a timely manner. At time in diagnosing problems that the IOL has diagnosed before or in solving problems that are very ftp.cs.unh.edu/pub/csp/Papers/dx98-msqalli.ps.gz

Wireless Measurement and Analysis on - Hpwren Todd Hansen (Correct)

Acm Sigcomm Internet Measurement Workshop 2001 1 Wireless Measurement And Analysis On Hpwren Todd Hansen, gives a brief description of the High Performance Wireless Research and Education Network (HPWREN) use equipment to monitor network performance, to diagnose problems, to measure network activities in a way moat.nlanr.net/Papers/PAM02-meas_HPWREN.ps.gz

RED for Improving TCP over Wireless Networks - Saad Biaz Xia (Correct)

RED for Improving TCP over Wireless Networks Saad Biaz Xia Wang Department of dramatically when a TCP connection traverses a wireless link on which packets may be lost due to Notification (ECN [9, 8, 17]to empower TCP to diagnose correctly losses and react appropriately. ECN is ftp.eng.auburn.edu/pub/techreports/csse/03/CSSE03-09.pdf

Characterizing the IEEE 802.11 Traffic: The - Wireless Side Jihwang (Correct)

Characterizing the IEEE 802.11 Traffic: The Wireless Side Jihwang Yeo, Moustafa Youssef, Ashok studies on measurement and characterization of wireless LANs have been performed recently. Most of www.cs.umd.edu/Library/TRs/CS-TR-4570/CS-TR-4570.pdf

Exogenous-Loss Awareness in Queue Management - Toward Global Fairness (2003) (Correct)

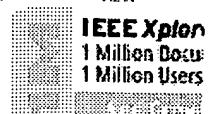
to excessive losses as they traverse noisy wireless channels. To deal with this heterogeneity, approach. Examples of this are abound: from wireless TCP research that attempts to contain wireless losses could be mitigated by enabling a source to diagnose the cause of packet losses and to react www.cs.bu.edu/techreports/ps/2003-026-xqm.ps

IEEE Network . January/February 2004 44.. - Uilders Of Large-Scale (2004) (Correct)

of any meeting she has attended to be sent to her wireless PDA, but only if she does not log in to the scenario were PDAs connected by an (expensive) wireless link with limited bandwidth. The goals of the notifications continue it should be possible to diagnose the specific cause. This must be carried out as www.cl.cam.ac.uk/users/bns21/papers/IEEE_Network_Composite_Event_2004.pdf

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Chirwa, L.C.; Hammond, P.A.; Roy, S.; Cumming, D.R.S.;

Biomedical Engineering, IEEE Transactions on, Volume: 50, Issue: 4, April 2003
Pages:484 - 492

[\[Abstract\]](#) [\[PDF Full-Text \(691 KB\)\]](#) [IEEE JNL](#)

2 The AT&T Labs broadband fixed wireless field experiment

Byoung-Jo Kim; Shankaranarayanan, N.K.; Henry, P.S.; Schlosser, K.; Fong, T.K.;

Communications Magazine, IEEE, Volume: 37, Issue: 10, Oct. 1999
Pages:56 - 62

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3 Applications of wireless research to real industrial problems.

Applications of mobile computing and communication

Bruegge, B.; Bennington, B.;

Personal Communications, IEEE [see also IEEE Wireless Communications], Volume: 3, Issue: 1, Feb. 1996
Pages:64 - 71

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4 MENet: a monitoring and protocol analysis tool for LAN

Junejo, N.; Junejo, N.A.; Unar, M.A.;

Advances in Wired and Wireless Communication, 2004 IEEE/Sarnoff Symposium on, 26-27 Apr 2004
Pages:63 - 66

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5 Mobile ECG detector through GPRS/Internet

Dong, J.; Zhu, H.;

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6 Testing systems wirelessly

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Pages:335 - 340

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Yong-Han Yoon; Jae-Chul Kim; Do-Hyuk Choi;

Power Engineering Society Summer Meeting, 2000. IEEE , Volume: 2 , 16-20 July 2000

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Pages:1627 - 1632 vol.5

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10 Empowering mobile healthcare providers via a patient benefits authorization service

Bharadwaj, V.; Raman, R.; Reddy, R.; Reddy, S.;

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11 Comparison-based system-level fault diagnosis in ad hoc networks

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Reliable Distributed Systems, 2001. Proceedings. 20th IEEE Symposium on , 28-31 Oct. 2001
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12 The AT&T Labs broadband fixed wireless field experiment
Kim, B.; Shankaranarayanan, N.K.; Henry, P.S.; Schlosser, K.P.; Fong, T.K.;
Wireless Communications and Networking Conference, 1999. WCNC. 1999
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Pages:747 - 751 vol.2

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13 MMIC designers trained on real chips without expensive fabrication
Hwang, J.C.M.;
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14 IS-95 CDMA forward link optimization tool
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15 Automatic test case generation of wireless interface protocols for next generation mobile telecommunications
Dong-Won Jang; Sang-Kook Jeong; Myung-Hee Kim; Han-Kyoung Kim;
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K. Pahlavan

July 1988 **ACM Transactions on Information Systems (TOIS)**, Volume 6 Issue 3

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2 [Wireless Andrew: experience building a high speed, campus-wide wireless data network](#)

Bernard J. Bennington, Charles R. Bartel

September 1997 **Proceedings of the 3rd annual ACM/IEEE international conference on Mobile computing and networking**

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January 2001 **Mobile Networks and Applications**, Volume 6 Issue 1

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Keywords: Andrew, WaveLAN, integration, wireless network

4 [Research challenges in wireless networks of biomedical sensors](#)

Loren Schwiebert, Sandeep K.S. Gupta, Jennifer Weinmann

July 2001 **Proceedings of the 7th annual international conference on Mobile computing and networking**

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terms

Implanted biomedical devices have the potential to revolutionize medicine. *Smart sensors*, which are created by combining sensing materials with integrated circuitry, are being considered for several biomedical applications such as a glucose level monitor or a retina prosthesis. These devices require the capability to communicate with an external computer system (base station) via a wireless interface. The limited power and computational capabilities of smart sensor based biological imp ...

5 Energy-aware system design: A survey of techniques for energy efficient on-chip communication

Vijay Raghunathan, Mani B. Srivastava, Rajesh K. Gupta

June 2003 **Proceedings of the 40th conference on Design automation**

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Keywords: communication architectures, energy efficient design, low power design, power management, system-on-chip design

6 HPCA-8 work-in-progress session: Monitoring and diagnosing computer systems by radio communication

Hans Eberle

June 2002 **ACM SIGARCH Computer Architecture News**, Volume 30 Issue 3

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A radio network is described for configuring, monitoring, and diagnosing the components of a computer system. Using radio communication offers many advantages: (a) it removes dependencies between the monitoring and monitored systems as orthogonal interconnects are used; (b) by broadcasting information it offers direct communication between the monitoring and monitored devices that does not rely on any intermediate communication devices; (c) it does not rely on a physical interconnect exposed to ...

Keywords: interconnection structures, radio communication, reliable systems

7 A situated computing framework for mobile and ubiquitous multimedia access using small screen and composite devices

Thai-Lai Pham, Georg Schneider, Stuart Goose

October 2000 **Proceedings of the eighth ACM international conference on Multimedia**

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In recent years, small screen devices, such as cellular phones or Personal Digital Assistants (PDAs), enjoy phenomenal popularity. PDAs can be used to complement traditional computing systems to access personal multimedia information beyond the usage as digital organizers. However, due to the physical limitations accessing rich multimedia contents and diverse services using a single PDA is more difficult. Hence, the Situated Computing Framework (SCF) research project at Siemens Corporate Rese ...

Keywords: WWW, composite devices, mobile and ubiquitous computing, situated computing

8 [GroupWeb \(video program\) \(abstract only\): a groupware Web browser](#)

Saul Greenberg, Mark Roseman

November 1996 **Proceedings of the 1996 ACM conference on Computer supported cooperative work**

Full text available:  [pdf\(422.32 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

GroupWeb is a prototype browser that allows group members to visually share and navigate World Wide Web page in real time. Its groupware features include document and view slaving for synchronizing information sharing, telepointers for enacting gestures, and relaxed "what you see is what I see" views to handle display differences. A groupware text editor lets groups create and attach annotations to pages. An immediate application of GroupWeb is as a presentation tool for real ti ...

9 [Composite Device Computing Environment: A Framework for Situated Interaction Using Small Screen Devices](#)

Thai-Lai Pham, Georg Schneider, Stuart Goose, Arturo Pizano

January 2001 **Personal and Ubiquitous Computing**, Volume 5 Issue 1

Full text available:  [pdf\(97.91 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Contemporary small screen devices are used as personal companion or communication devices. However, their physical dimensions constrain the processing, communication and user interface capabilities. Thus, rich content presentation and diverse service access via small screen appliances is limited accordingly. This paper introduces the Composite Device Computing Environment (CDCE) that provides a framework for dynamically detecting and utilising surrounding computing resources to overcome the smal ...

10 [Collaborative wearable systems research and evaluation \(video program\)\(abstract only\)](#)

Jane Siegel, Robert E. Kraut, Mark D. Miller, David J. Kaplan, Malcolm Bauer

November 1996 **Proceedings of the 1996 ACM conference on Computer supported cooperative work**

Additional Information: [full citation](#), [abstract](#), [index terms](#)

An interdisciplinary research group at Carnegie Mellon University (CMU) is investigating the design and usefulness of mobile CSCW systems for the support of distributed diagnosis, repair, and redesign of large vehicles, such as aircraft and trains. These systems incorporate diagnostic aids, on-line maintenance manuals, schematic drawings, and telecommunications that allow workers to access both stored information and interactive help from remote experts. This videotape illustrates the pro ...

11 [Mobility Models: On the accuracy of MANET simulators](#)

David Cavin, Yoav Sasson, André Schiper

October 2002 **Proceedings of the second ACM international workshop on Principles of mobile computing**

Full text available:  [pdf\(139.17 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The deployment of wireless applications or protocols in the context of Mobile Ad-hoc NETworks (MANETs), often requires to step through a simulation phase. For the results of the simulation to be meaningful, it is important that the model on which is based the simulator matches as closely as possible the reality. In this paper we present the simulation results of a straightforward algorithm using several popular simulators (OPNET Modeler, NS-

2, GloMoSim). The results tend to show that significant ...

Keywords: GloMoSim, MANET, NS-2, OPNET, accuracy, flooding, mobile ad-hoc networks, simulations, simulators

12 Poster presentations: Technology applied to address difficulties of Alzheimer patients and their partners 

Janice Loh, Tomas Schietecat, Tsun Fai Kwok, Lucas Lindeboom, Peter Joore
June 2004 **Proceedings of the conference on Dutch directions in HCI**

Full text available:  [pdf\(87.13 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

This paper discusses how technological potential have brought true benefit to the lives of people with Alzheimer. Contextual scenarios that illustrate certain problems faced by Alzheimer patients in their daily lives have been mapped out, and a conceptual solution enabled by technology is proposed. A discussion on the feasibility of this solution and its implementation ensues.

Keywords: Alzheimer, GPS, GSM, communication, industrial design, patients and caregivers, tracking, user research

13 Utilizing mobile computing in the Wishard Memorial Hospital ambulatory service 

Stuart Morton, Omran Bukhres

April 1997 **Proceedings of the 1997 ACM symposium on Applied computing**

Full text available:  [pdf\(787.05 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: disconnection handling, distributed systems, medical patient database, mobile hosts, mobile transaction processing

14 Session 5B: Embedded tutorial: CAD solutions and outstanding challenges for mixed-signal and RF IC design: CAD solutions and outstanding challenges for mixed-signal and RFIC design 

Domine Leenaerts, Georges Gielen, Rob A. Rutenbar

November 2001 **Proceedings of the 2001 IEEE/ACM international conference on Computer-aided design**

Full text available:  [pdf\(1.87 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This tutorial paper addresses the problems and solutions that are posed by the design of mixed-signal integrated systems on chip (SoC). These include problems in mixed-signal design methodologies and flows, problems in analog design productivity, as well as open problems in analog, mixed-signal and RF design, modeling and verification tools. The tutorial explains the problems that are posed by these mixed-signal/RF SoC designs, describes the solutions and their underlying methods that exist toda ...

15 Deployment and testbeds: Enhancement of a WLAN-based internet service in Korea 

Youngkyu Choi, Jeongyeup Paek, Sunghyun Choi, Go Woon Lee, Jae Hwan Lee, Hanwook Jung
September 2003 **Proceedings of the 1st ACM international workshop on Wireless mobile applications and services on WLAN hotspots**

Full text available:  [pdf\(774.23 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A wireless LAN (WLAN)-based Internet service, called NESPOT, of Korea Telecom (KT), the biggest telecommunication and Internet service company in Korea, has been operational

since early 2002. As the numbers of subscribers and deployed access points (APs) increase, KT has been endeavoring to improve its service quality as well as the network management. In this paper, we introduce a joint effort between Seoul National University (SNU) and KT to achieve it. We have been addressing two major issues ...

Keywords: IEEE 802.11, LAN, hotspot service, wireless internet service provider (WISP)

16 Viewpoint: Folk computing

Ramesh Jain

April 2003 **Communications of the ACM**, Volume 46 Issue 4

Full text available:  [pdf\(58.18 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)
 [html\(13.93 KB\)](#)

Communicating through the natural human senses, not just the usual text and images, experiential environments can serve even the illiterate and impoverished in the remotest human societies.

17 Challenges: Challenge:: integrating mobile wireless devices into the computational grid

Thomas Phan, Lloyd Huang, Chris Dulan

September 2002 **Proceedings of the 8th annual international conference on Mobile computing and networking**

Full text available:  [pdf\(204.77 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

One application domain the mobile computing community has not yet entered is that of grid computing -- the aggregation of network-connected computers to form a large-scale, distributed system used to tackle complex scientific or commercial problems. In this paper we present the challenge of harvesting the increasingly widespread availability of Internet connected wireless mobile devices such as PDAs and laptops to be beneficially used within the emerging national and global computational grid. T ...

Keywords: economic model, grid computing, mobile wireless computing, network clusters, pervasive computing

18 Special system-oriented section: the best of SIGMOD '94: Sleepers and workaholics: caching strategies in mobile environments (extended version)

Daniel Barbará, Tomasz Imieliński

October 1995 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 4 Issue 4

Full text available:  [pdf\(1.73 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

In the mobile wireless computing environment of the future, a large number of users, equipped with low-powered palmtop machines, will query databases over wireless communication channels. Palmtop-based units will often be disconnected for prolonged periods of time, due to battery power saving measures; palmtops also will frequently relocate between different cells, and will connect to different data servers at different times. Caching of frequently accessed data items will be an important techni ...

Keywords: caching, data management, information services, wireless

19 Havana: supporting application and channel dependent QoS in wireless packet networks

Javier Gomez, Andrew T. Campbell

January 2003 **Wireless Networks**, Volume 9 Issue 1

Full text available:  [pdf\(325.55 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

For wireless channels, interference mitigation techniques are typically applied at the packet transmission level. In this paper, we present the Havana framework which supports *integrated adaptive-QoS* in wireless packet networks by responding to impairments over multiple time scales that are present at the flow/session level. The Havana framework is based on three different control mechanisms that operate over distinct adaptation time scales. At the packet transmission time scale, a packet ...

Keywords: QoS, adaptive wireless networks

20 [Focusing on user-to-product relationships: The development of mobile applications for patient education](#) 

Jane Wood, Alison Keen, Niren Basu, Simon Robertshaw

June 2003 [Proceedings of the 2003 conference on Designing for user experiences](#)

Full text available:  [pdf\(117.56 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

The International Centre for Digital Content explores the relationship of technology to society through present and emerging applications. This paper outlines ICDC's rapid application development methodology, focusing specifically on a current project partnership with Healthcare Services. The aim of this project is to provide the Primary Care Group (PCG) healthcare specialists with a suite of interoperable devices that can provide breast cancer patients with personalized educationa ...

Keywords: concept development, education, interoperable, learning, multi-channel delivery, user experience, user interface design, user testing

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